HT910 E

Dual band 3G terminal for industrial grade M2M applications

The HT910 E is a self-contained terminal featuring the latest technology from Telit.

As a dual-mode GSM/UMTS terminal operating in the GSM 900 / 1800 MHz and the UMTS 900 / 2100 MHz frequency bands, it can be deployed in all of Europe as well as a wide range of additional countries where these frequencies are supported.

HT910 E is perfectly suited for System Integrators who require access the high-speed connections or low latencies of 3G networks for their M2M applications. The device is also suitable for applications requiring additional data carrier options to improve the reliability of their overall M2M solution. The HT910 E terminals provide both industry-grade RS232 as well as USB 2.0 for high-speed connections in order to support such applications.

Additionally, the module integrated in the terminal support applications developed in Python, and provides additional features such as jamming detection and cellular-based positioning.

Key Benefits

- Exceptional price/performance ratio
- Programmable 3G terminal
- Deploy in all European markets and a multitude of additional countries supporting the 900 & 2100 MHz bands
- Flexibility to use RS232 or USB 2.0 interface depending on your application's needs

Key Features

- Dual band GSM & UMTS terminal
- Telit AT command set
- HSPA: DL 7.2 Mbit/s; UL: 5.7 Mbit/s
- RS232 (Sub-D)
- USB 2.0 (Mini-USB)
- 1 analogue input
- Support for Python scripts

Remote Video Surveillance

Bulk Data Transmission

Smart Grid Appplications

Fast Software Updates

Low Latencies

Redundant Communications

Wireless Features

- Module Name: Telit UE910-EUD
- Frequency Bands:
  - GSM: 900 / 1800 MHz
  - UMTS: 900 / 2100 MHz
- Downlink / Uplink Data rate:
  - EDGE: 237 kbps (DL/UL)
  - HSDPA: 7.2 Mbps (DL) / 5.7 Mbps (UL)
- Receiver Sensitivity:
  - -109 dBm @ 900 MHz (GSM)
  - -110 dBm @ 1800 MHz (GSM)
  - -111 dBm @ 2100 MHz (UMTS)
- GPRS / EDGE Class: 33
- Output Power:
  - Class 4 (2W) for GSM900
  - Class 1 (1W) for GSM1800
  - Class E2 (0.5 W, 27 dBm) for EDGE 900
  - Class E2 (0.4W, 26 dBm) EDGE 1800
  - Class 3 (0.25W, 24 dBm) for UMTS
- SMS: Text and PDU mode, Cell Broadcast, SMS over GPRS
- USSD
- CSD: Asynchronous non-transparent, up to 9.6 kbps
- Additional Wireless Features: DARP, CPC (DRX/DTX), Dual Transfer Mode
- Serial Port Multiplexer: based on 3GPP 27.011
- SIM Access Profile

Power Management

- Voltage Range: 5V - 32V
- Power Consumption (Idle Mode): 12,1 mA (@12V) [1]
- Power Consumption (Low Power Mode): 1,8 mA (@12V) [1]
- USB Host Powered: (Optional [2])

[1] RS232 DTR low, USB disconnected. Measurement (including peaks) averaged over a 1 min interval.

Software

- AT Command Set: Hayes Compliant, TS 27.005, 27.007 and Telit custom AT
- Programming Language: Python
- Firmware Update: FOTA
- SIM Application Toolkit: 3GPP TS 51.014
- Cellular Positioning & Jamming Detection

Hardware Features

- Memory: 2 MB RAM / 5 MB Flash
- SIM Card Holder: 1x (1,8/3 Volt)
- SIM Chip Option [2]
- LEDs: 1x GSM/UMTS Status + 2x Configurable
- Real-time clock with alarm functionality
- Mounting: Screws; DIN Rail (accessory)
- Type Approvals: CE

Connectors

- D-Sub (9-pin): 1x Female (RS232)
- USB: Mini-USB (USB 2.0)
- RJ11: 1x Power + I/Os (1 Analogue Input + 1 Optional [2] Output)
- FME: 1x Male (Antenna)

Hardware Characteristics

- Operating Temperature: -30°C to +80°C
- Dimensions: 77x66x26 mm
- Weight: 91g

[2] Optional Features: Please contact us to discuss the development of customized terminals per your requirements.

Power Supply

RS232 Cable

DIN Rail

Stub Antenna

Rectangular Antenna

Roof Antenna

Magnetic Antenna